Who is infected with HIV but does not yet know? Detailed Data Tables and Technical Notes

Technical Notes:

The U.S. Centers for Disease Control and Prevention (CDC) has recently estimated that about one-quarter of HIV infected persons nationwide do not know they are infected (previous editions of the Epidemiologic Profile estimated that about one-third of HIV-infected persons either did not know they were infected or were not in care in Massachusetts). People unaware of their status do not access HIV-related care and treatment, and, therefore, are unable to experience the benefits of these services, including improved health, better quality of life and longer survival. Additionally, they lack the opportunity to be counseled regarding further prevention of HIV transmission. Applying the national estimate to the number of people living with HIV/AIDS in Massachusetts reported to the HIV/AIDS Surveillance Program (N = 14,727 as of July 1, 2004), and adjusting for completeness of reporting, would yield an estimated 5,775 people who are infected with HIV and do not know it, and an additional 2,600 people who know their status but have not been reported. Therefore, the estimated total number of people currently living with HIV/AIDS in MA, including people known to the system as well as those yet to be identified, is in the range of 22,000 – 24,000 people.

People who are first diagnosed with HIV infection (that they may have been unaware of for a very long time) at the same time that they are diagnosed with AIDS are considered "concurrently diagnosed". In the data that follow, a person is considered to have been concurrently diagnosed with HIV infection and AIDS if both the initial HIV infection and AIDS diagnosis occurred within two months. The profile of people who are concurrently diagnosed with HIV infection and AIDS highlights a population of people who may have first learned about their HIV infection status late in the progression of HIV disease. It is likely that people who are concurrently diagnosed with HIV and AIDS have been infected for more time prior to learning their HIV status than people who learn of their status before being diagnosed with AIDS. As such, the profile of people who are concurrently diagnosed with HIV infection and AIDS provides a good approximation of people who are infected but do not yet know. This group is one of the target populations for HIV counseling and testing efforts.

When using these data, one must keep in mind the confounding effects of place of birth. People born outside the US may have learned of their HIV status in their native country and then moved to Massachusetts (or elsewhere in the US) to receive care; as opposed to moving to Massachusetts, becoming infected with HIV and then learning about their HIV status late in the course of HIV disease. There is no way to differentiate between these two scenarios in the HIV surveillance data, although the latter represents a missed opportunity for Massachusetts care providers and the former may not. When

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¹ Fleming PL, Byers RH, Sweeney PA, Daniels D, Karon JM, Janssen RS. HIV prevalence in the United States, 2000. Abstract 11. 9th Conference on Retroviruses and Opportunistic Infections, Seattle, Washington, February 24-28, 2002

reviewing the proportion of concurrent diagnoses by race/ethnicity one should note the differences in the distribution of place of birth by race/ethnicity. Sixty-one percent of black individuals concurrently diagnosed with HIV infection and AIDS from 2001 to 2003 were non-US born compared to 34% of Hispanic individuals and 9% of white individuals.

Table 6.1 People Diagnosed with HIV Infection and AIDS within Two Months and All People Diagnosed with HIV Infection by Gender, Race/Ethnicity, and Mode of Exposure: MA, 2001 - 2003

	HIV and AIDS Diagnosed within 2 Months	All HIV Infection Diagnoses	% Diagnosed with HIV and AIDS within 2 Months
Gender:	N	N	%
Male Female	573 238	1,876 814	31% 29%
Race/Ethnicity:	N	N	%
White (non-Hispanic) Black (non-Hispanic) Hispanic Asian/Pacific Islander Amer. Indian/Alaska Native	302 310 180 18 1	1,085 890 627 58 ¹	28% 35% 29% 31% ¹
Exposure Mode:	N	N	%
Male-to-male sex (MSM) Injection Drug Use (IDU) MSM/IDU Heterosexual Sex Other ² Total Undetermined • Pres. Heterosexual Sex ³ • Undetermined ⁴	213 126 13 140 6 313 235 78	867 469 62 388 8 8 896 636 260	25% 27% 21% 36% 75% 35% 37% 30%
TOTAL ⁵	811	2,690	30%

Percentages calculated from a denominator and numerator of less than 5 are unstable and therefore not presented

² Other includes pediatric and blood/blood products

³ Unknown risk of partner

⁴ Includes those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up

⁵ Totals include people of unspecified race/ethnicity Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 7/1/04

Table 6.2 People Diagnosed with HIV Infection and AIDS within Two Months and All People Diagnosed with HIV Infection by Place of Birth and Age at HIV/AIDS Concurrent Diagnosis and **HIV Diagnosis: MA, 2001-2003**

	HIV and AIDS Diagnosed within 2 Months	All HIV Infection Diagnoses	% Diagnosed with HIV and AIDS within 2 Months
Place of Birth:	N	N	%
US Puerto Rico and other US Dependencies ¹ Non-US	443 72 296	1,655 262 773	27% 27% 38%
Age at Diagnosis:	N	N	%
0-12 13-19 20-24 25-29 30-34 35-39 40-44 45-49 50+	² 6 33 73 126 169 166 112 123	-2 42 148 302 500 597 479 326 293	14% 22% 24% 25% 28% 35% 34% 42%
TOTAL	811	2,690	30%

^{94%} of people diagnosed with HIV infection from 2001-2003 who were born in a US Dependency were born in Puerto

Rico

2 Percentages calculated from a denominator and numerator of less than 5 are unstable and therefore not presented

Data as of 7/1/04 Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 7/1/04

Table 6.3 People Diagnosed with HIV Infection and AIDS within Two Months and AII People Diagnosed with HIV Infection by Gender and Race/Ethnicity: MA, 2001 – 2003

	HIV and AIDS Diagnosed within 2 Months	All HIV Infection Diagnoses	% Diagnosed with HIV and AIDS within 2 Months			
Males by Race/Ethnicity:	N	N	%			
White (non-Hispanic) Black (non-Hispanic) Hispanic Asian/Pacific Islander Total Male ¹	255 176 130 11 573	908 480 426 42 1,876	28% 37% 31% 26% 31%			
Females by Race/Ethnicity:	N	N	%			
White (non-Hispanic) Black (non-Hispanic) Hispanic Asian/Pacific Islander Total Female ¹	47 134 50 7 238	177 410 201 16 814	27% 33% 25% 44% 29%			
¹ Totals include American Indian/Alaska Native and people of unspecified race/ethnicity Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 7/1/04						